FIG 1

(~~Stand der Technik~~) Prior Art

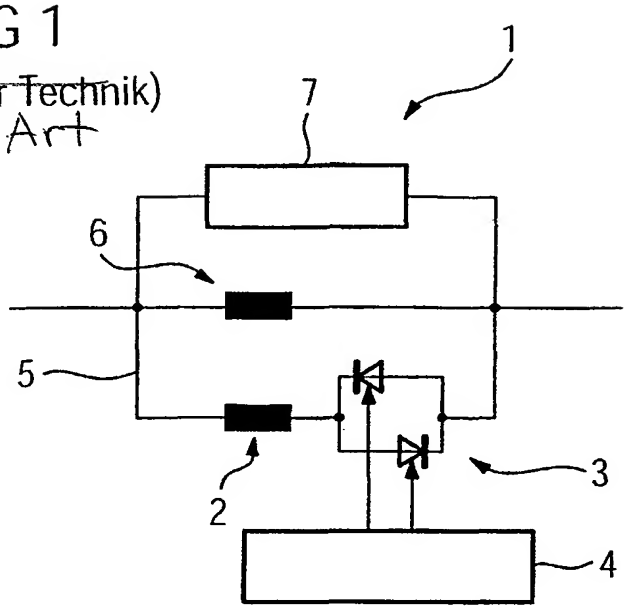


FIG 2

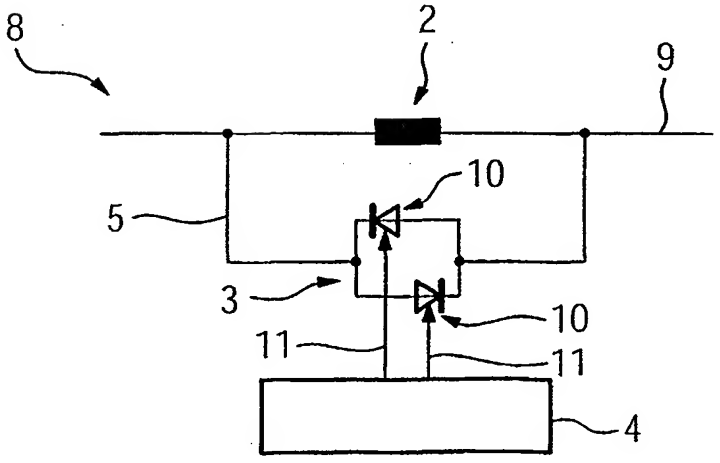


FIG 3a

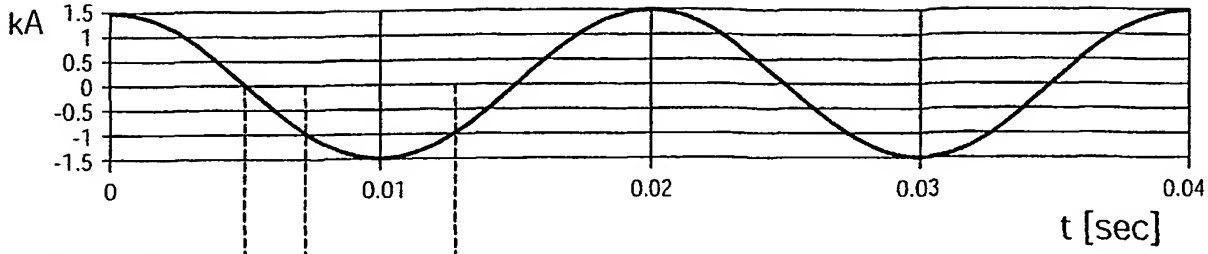


FIG 3b

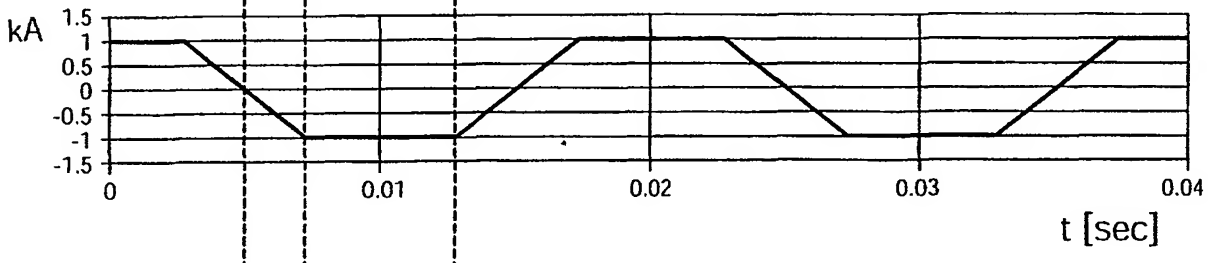


FIG 3c

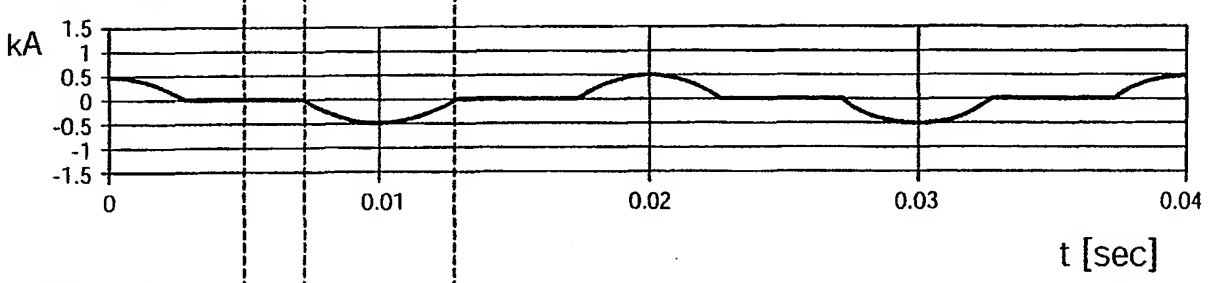


FIG 3d

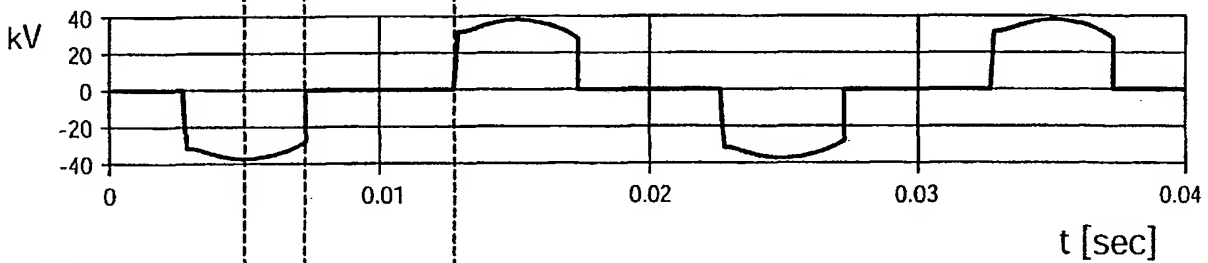


FIG 3e

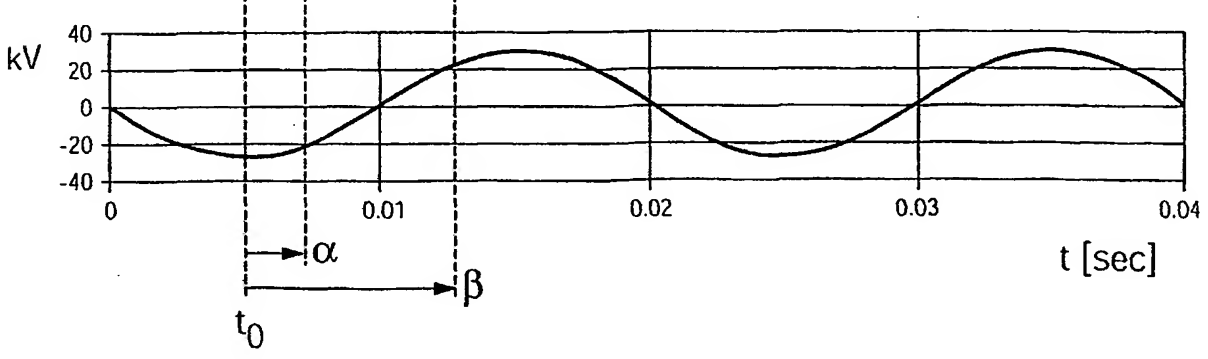


FIG 4

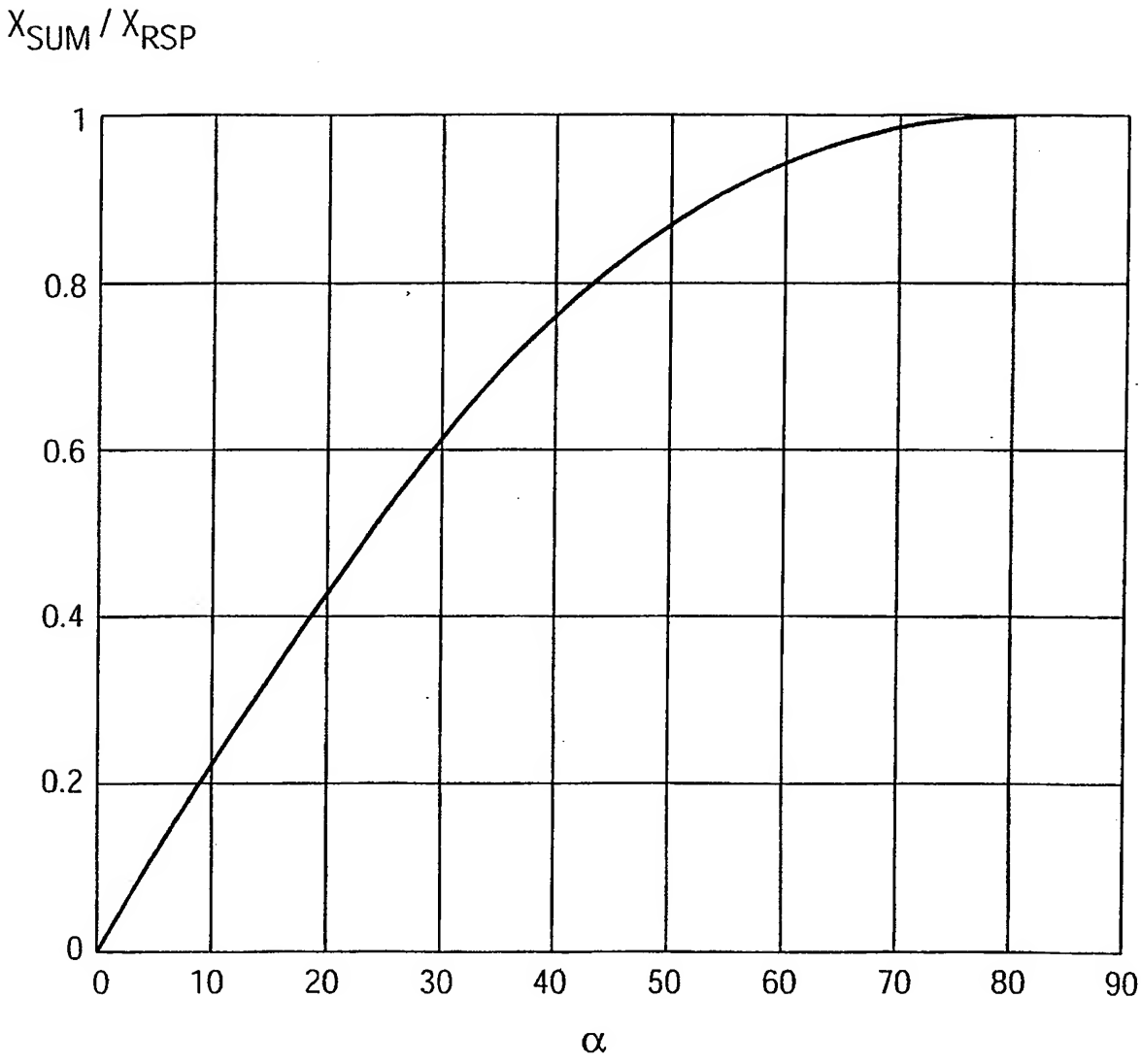


FIG 5a

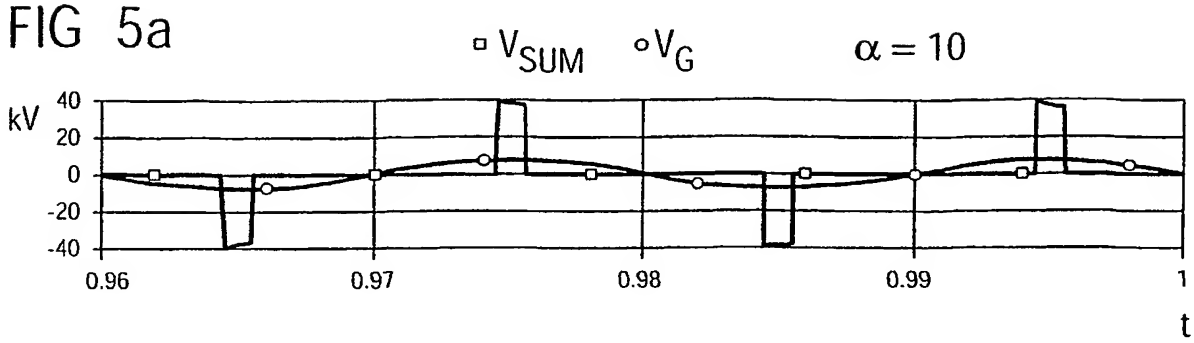


FIG 5b

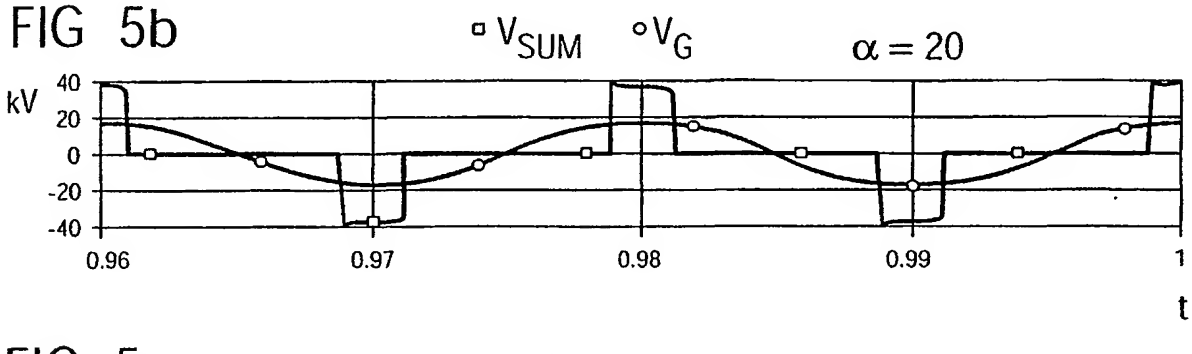


FIG 5c

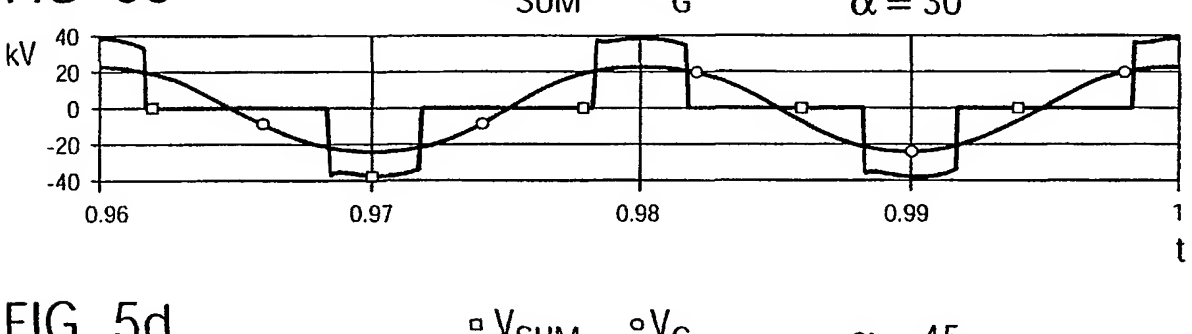


FIG 5d

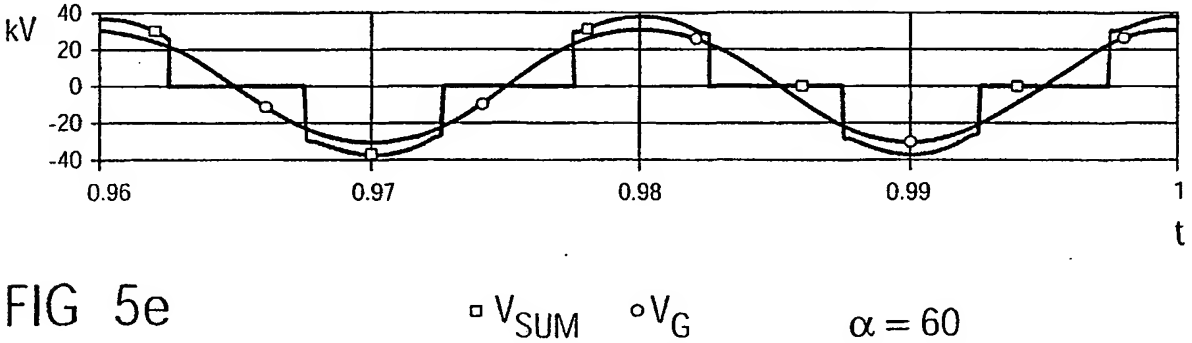
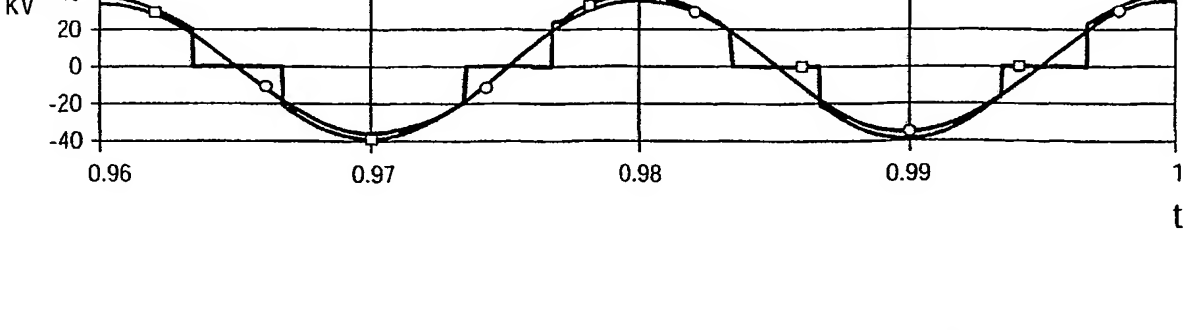


FIG 5e



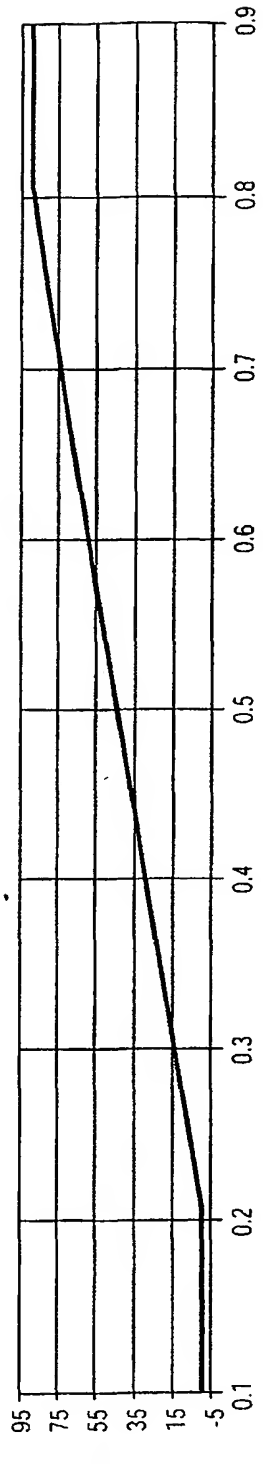


FIG 6a

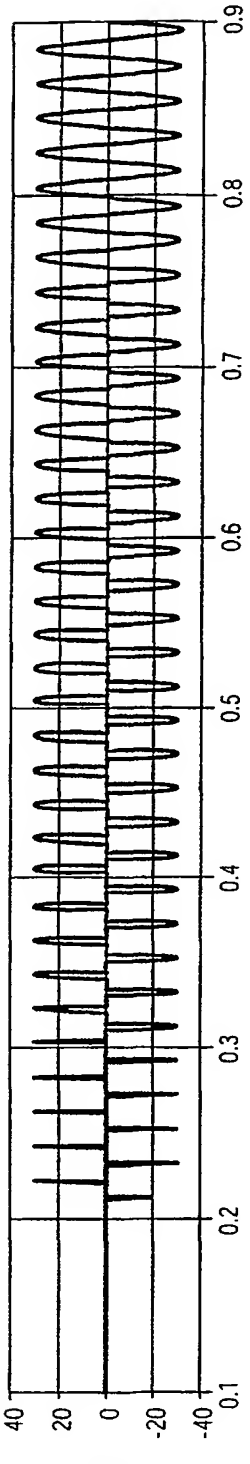


FIG 6b

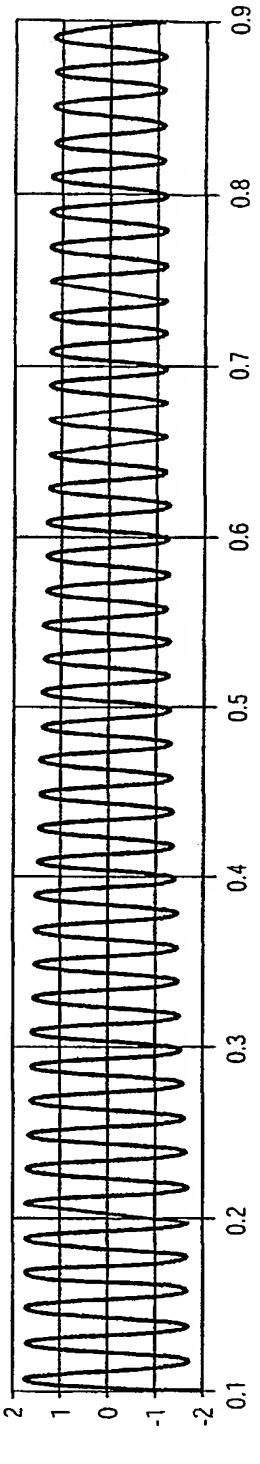


FIG 6c

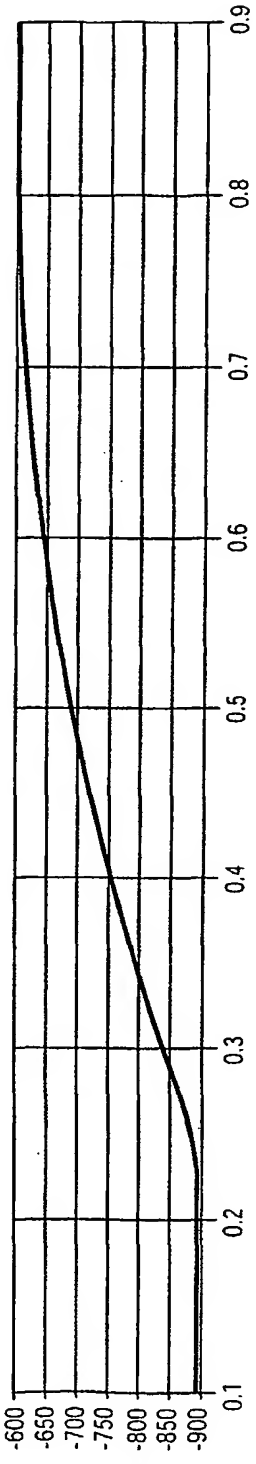


FIG 6d

FIG 7

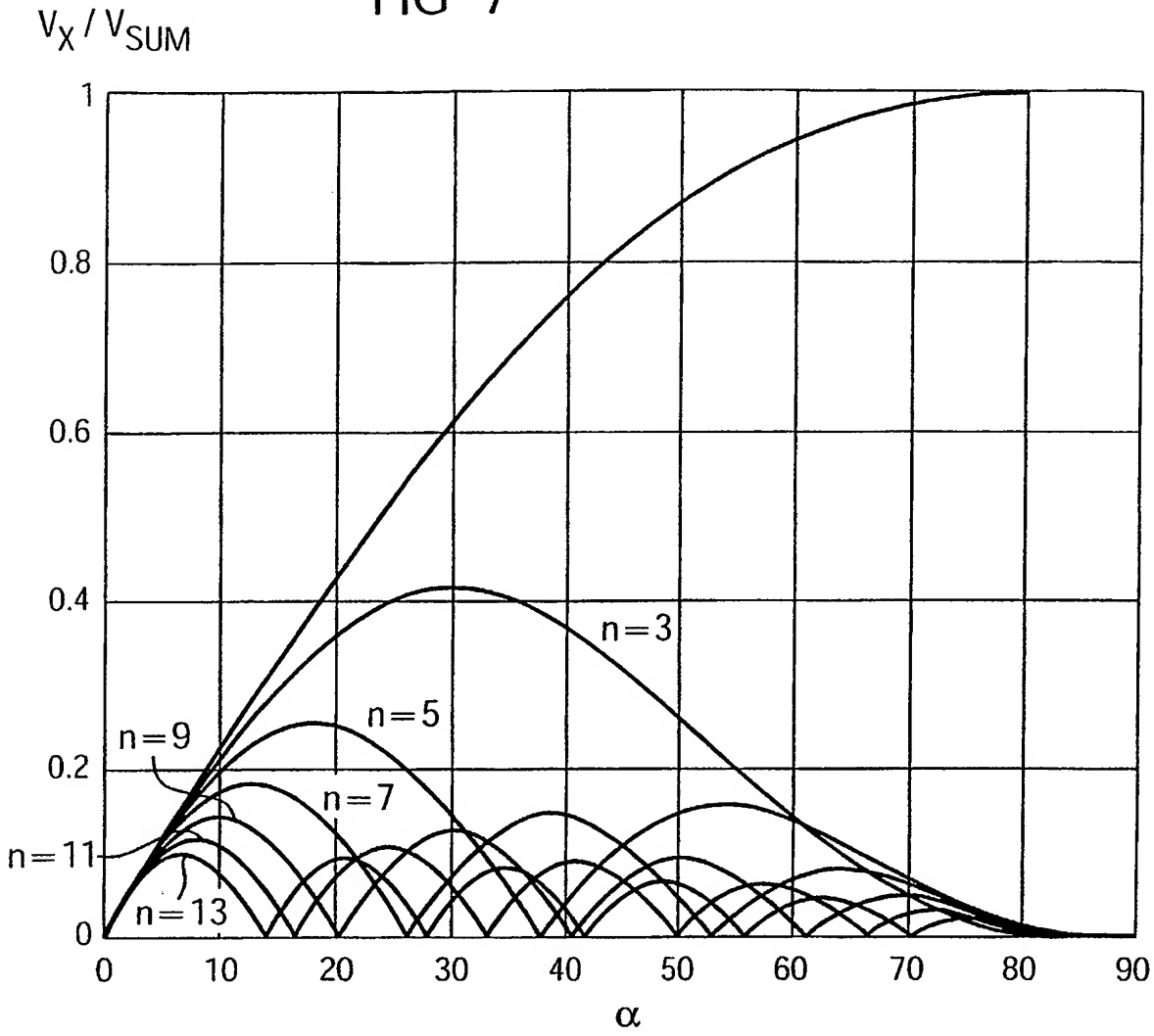

V_X / V_{SUM}
1
0.8
0.6
0.4
0.2
0
n=3
n=5
n=7
n=9
n=11
n=13
0
10
20
30
40
50
60
70
80
90
α

FIG 8

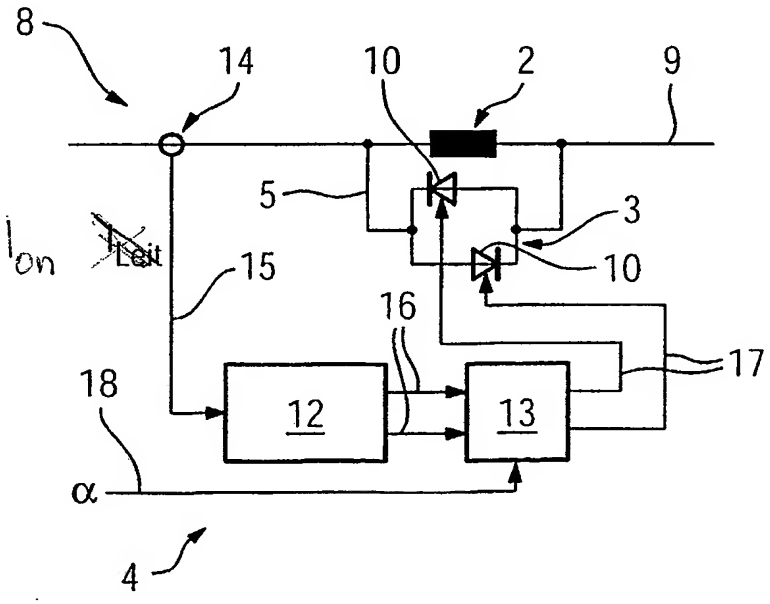

8
14
10
2
9
5
3
10
15
16
17
18
12
13
α
4

FIG 9

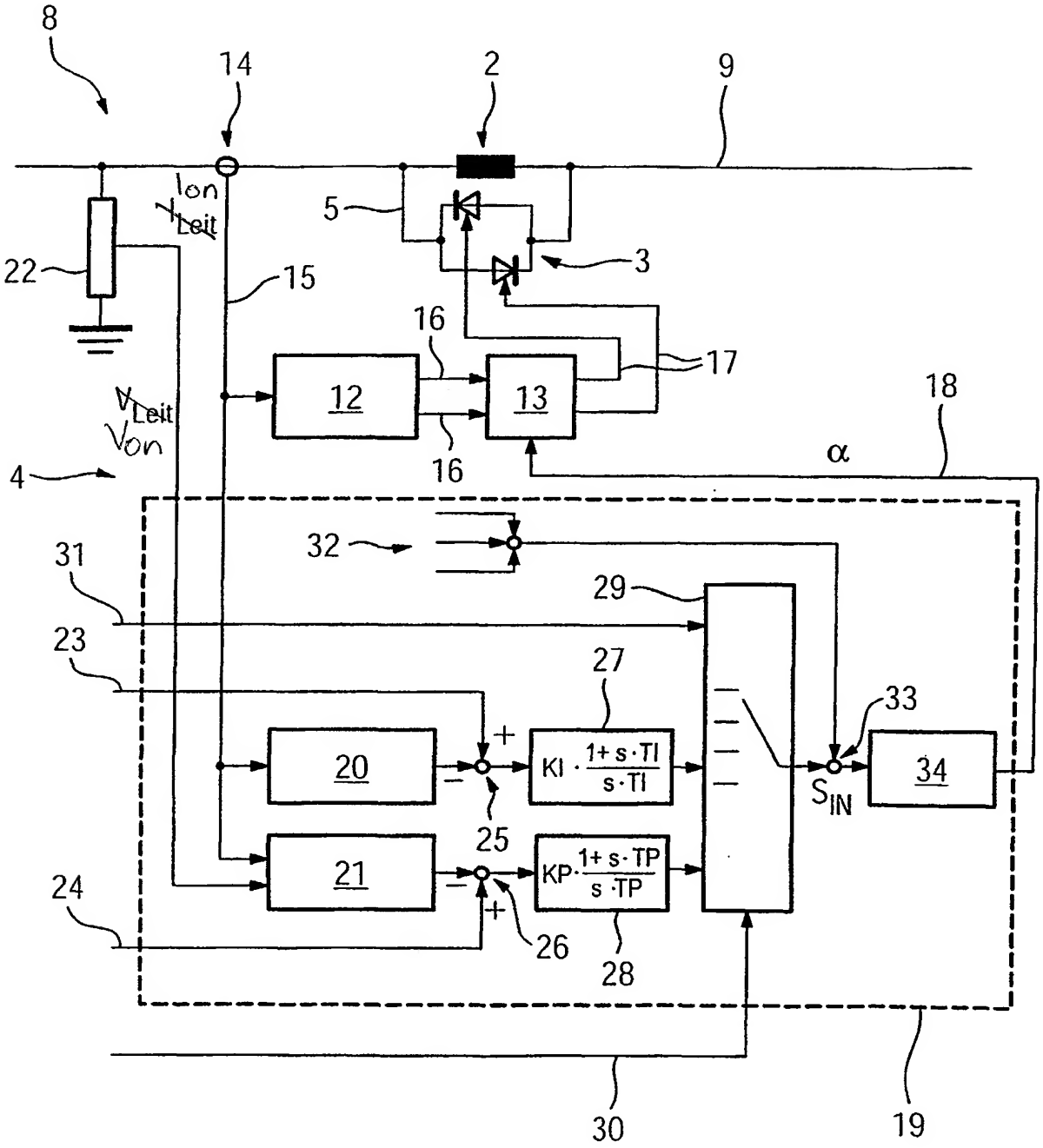

8
14
2
9
5
3
22
15
16
17
12
13
18
α
4
32
31
29
23
27
33
20
KI · 1+ s·TI / s·TI
34
25
21
KP · 1+ s·TP / s·TP
24
26
28
30
19

FIG 10

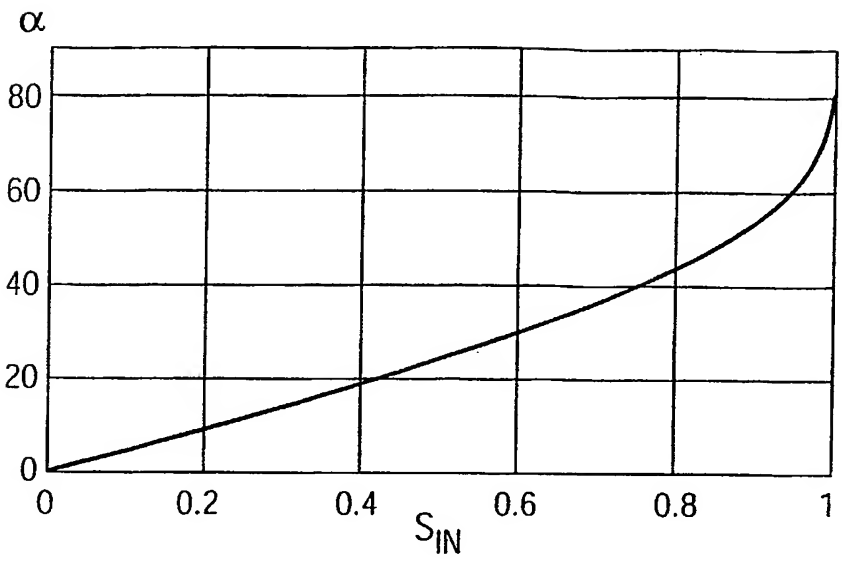


FIG 11

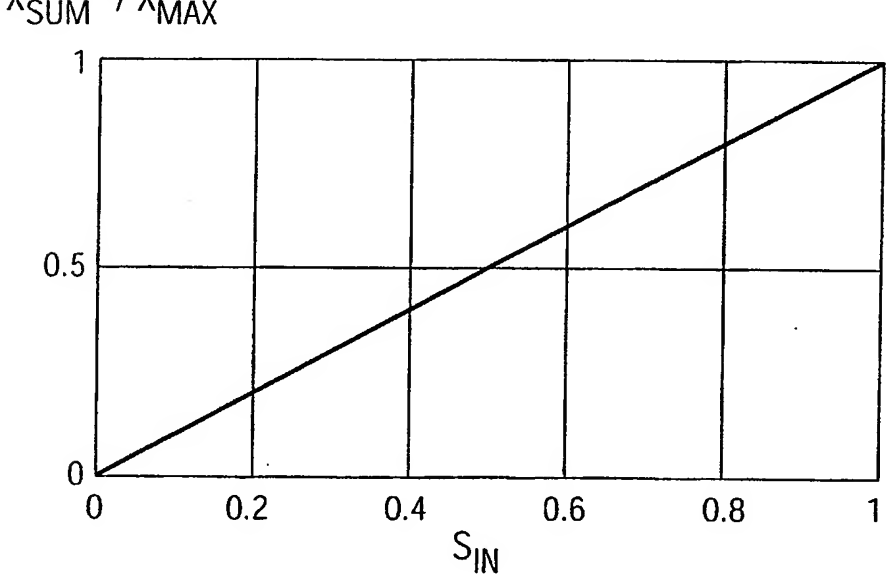


FIG 12

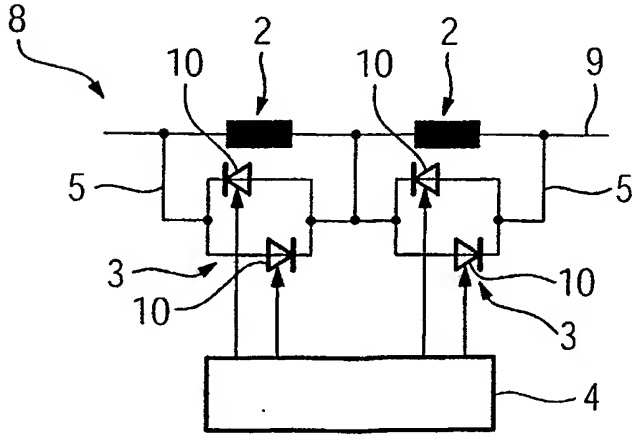


FIG 13

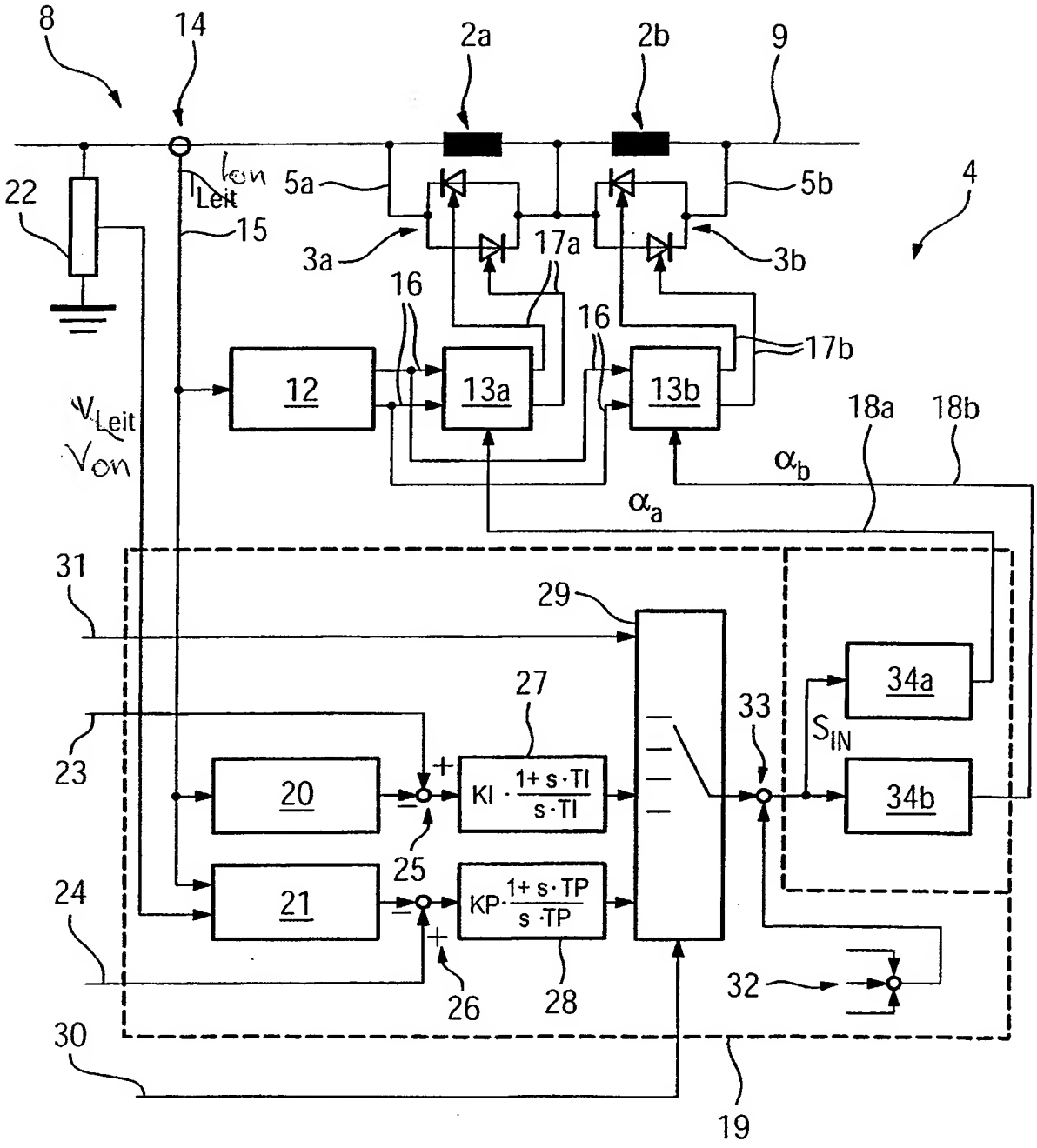

8
14
2a
2b
9
22
Ion
ILeit
5a
5b
4
15
3a
17a
3b
16
16
17b
12
13a
13b
VLeit
Von
18a
18b
αb
αa
31
29
27
34a
33
SIN
23
20
KI · 1+ s·TI / s·TI
34b
25
24
21
KP · 1+ s·TP / s·TP
26
28
32
30
19

FIG 14

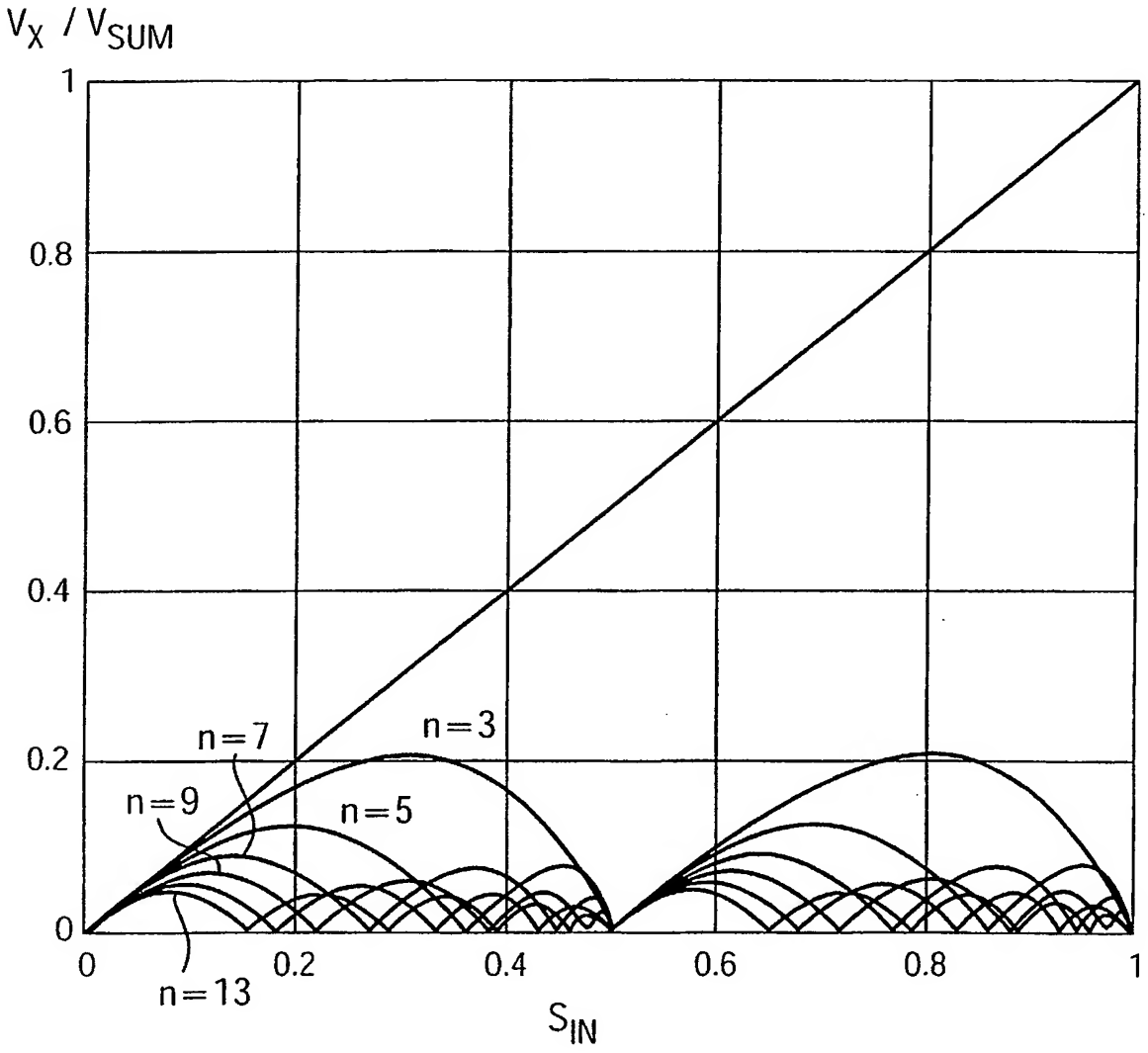


FIG 15a

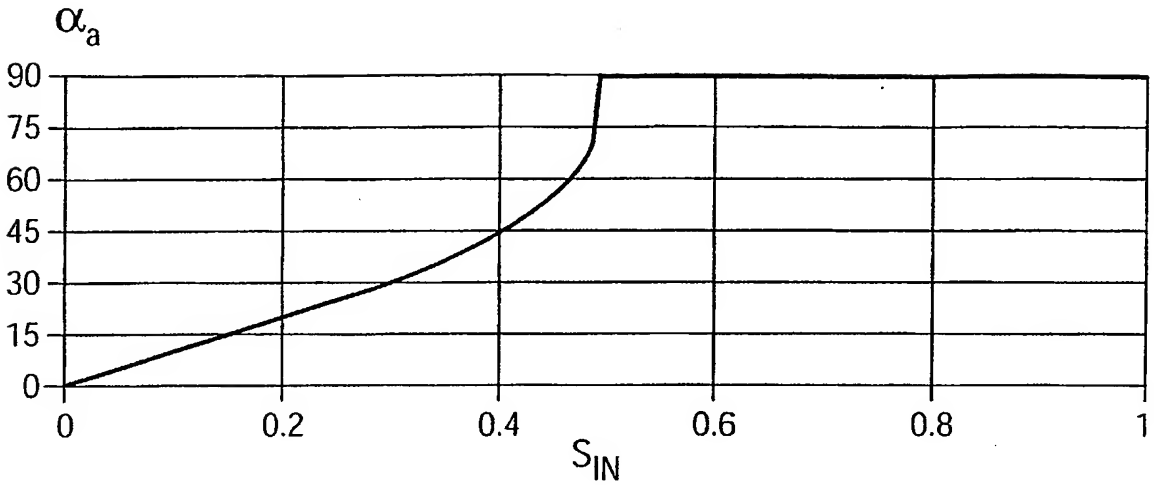


FIG 15b

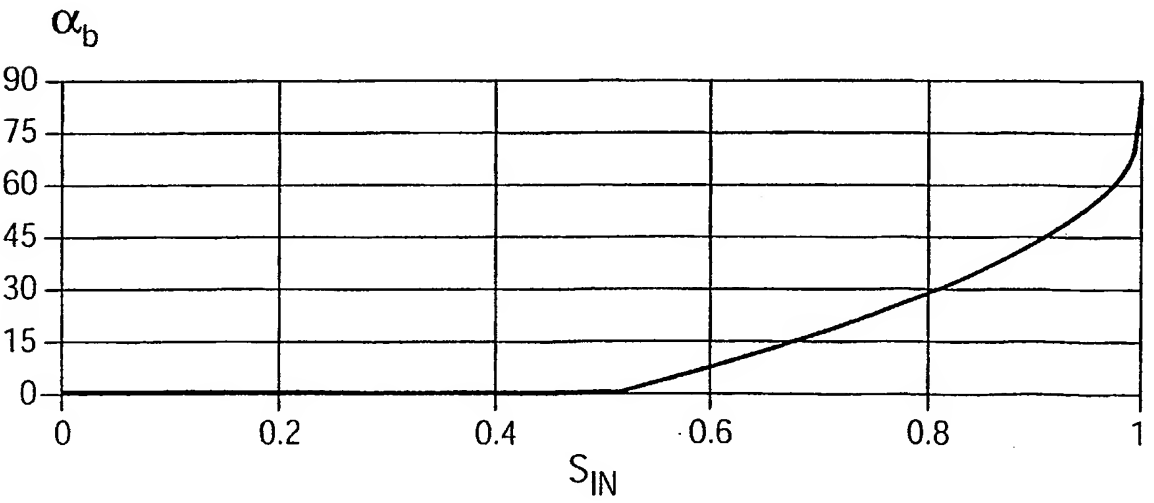


FIG 16

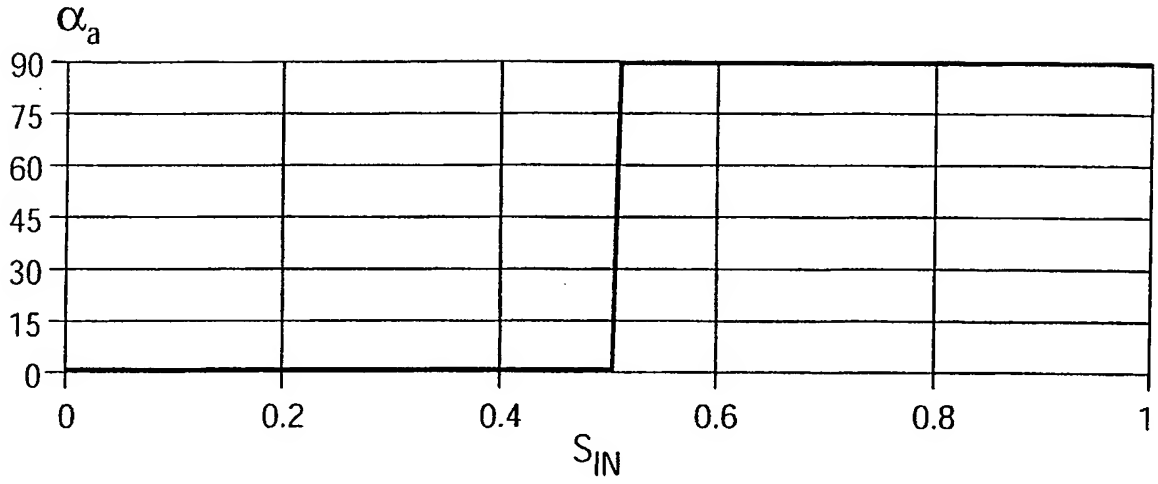

α_a
90
75
60
45
30
15
0
0
0.2
0.4
0.6
0.8
1
S_{IN}

FIG 17

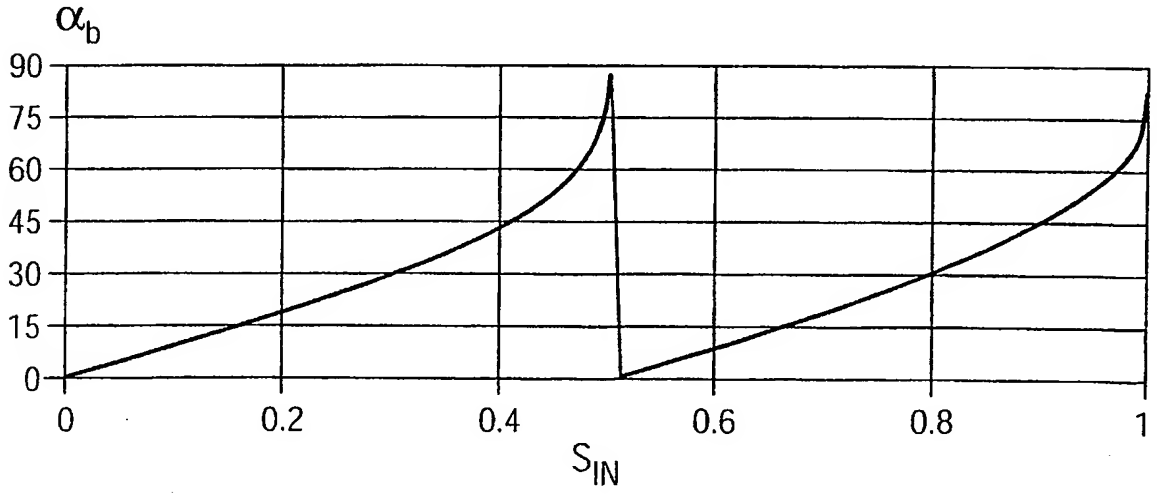

α_b
90
75
60
45
30
15
0
0
0.2
0.4
0.6
0.8
1
S_{IN}

FIG 18

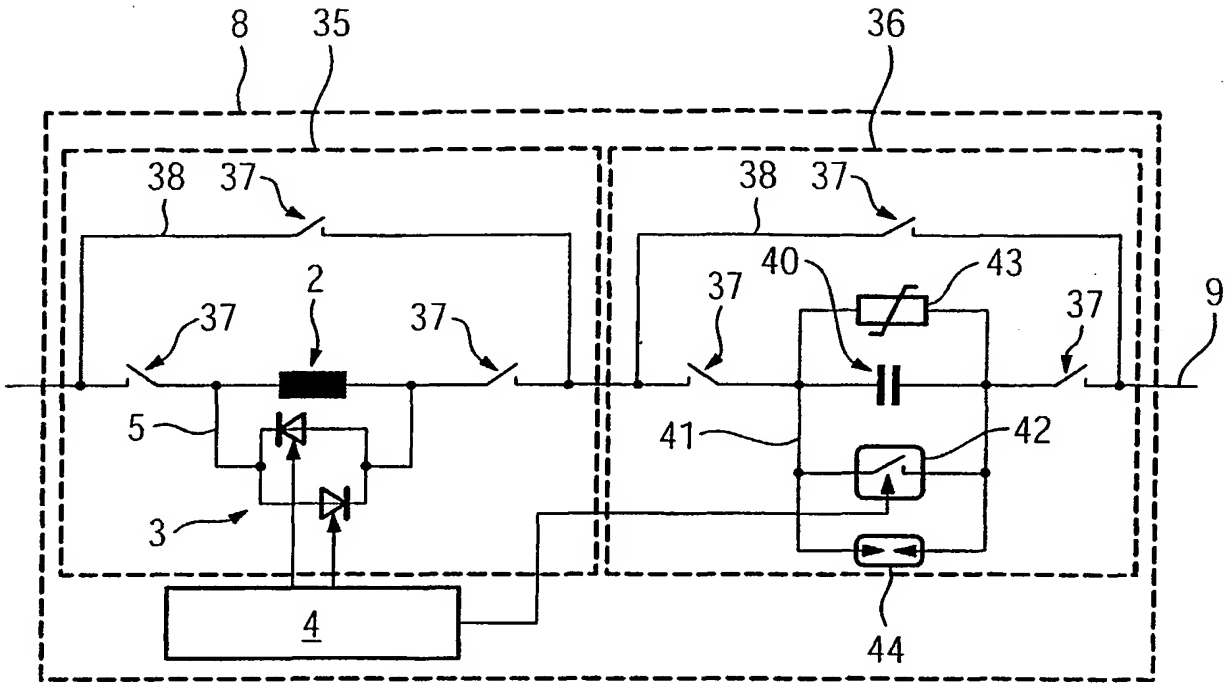

8
35
36
38
37
38
37
2
37
37
40
43
37
37
9
5
41
42
3
4
44

FIG 19

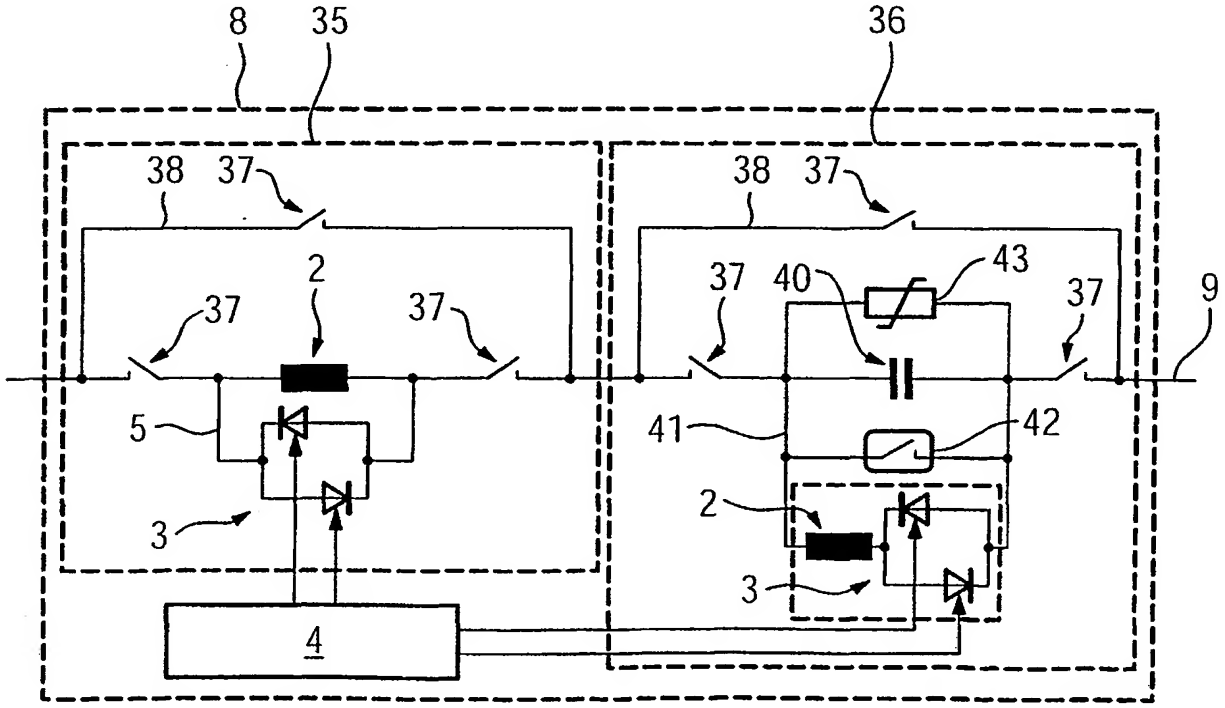

8
35
36
38
37
38
37
2
37
37
37
40
43
37
9
5
41
42
2
3
3
4

FIG 20

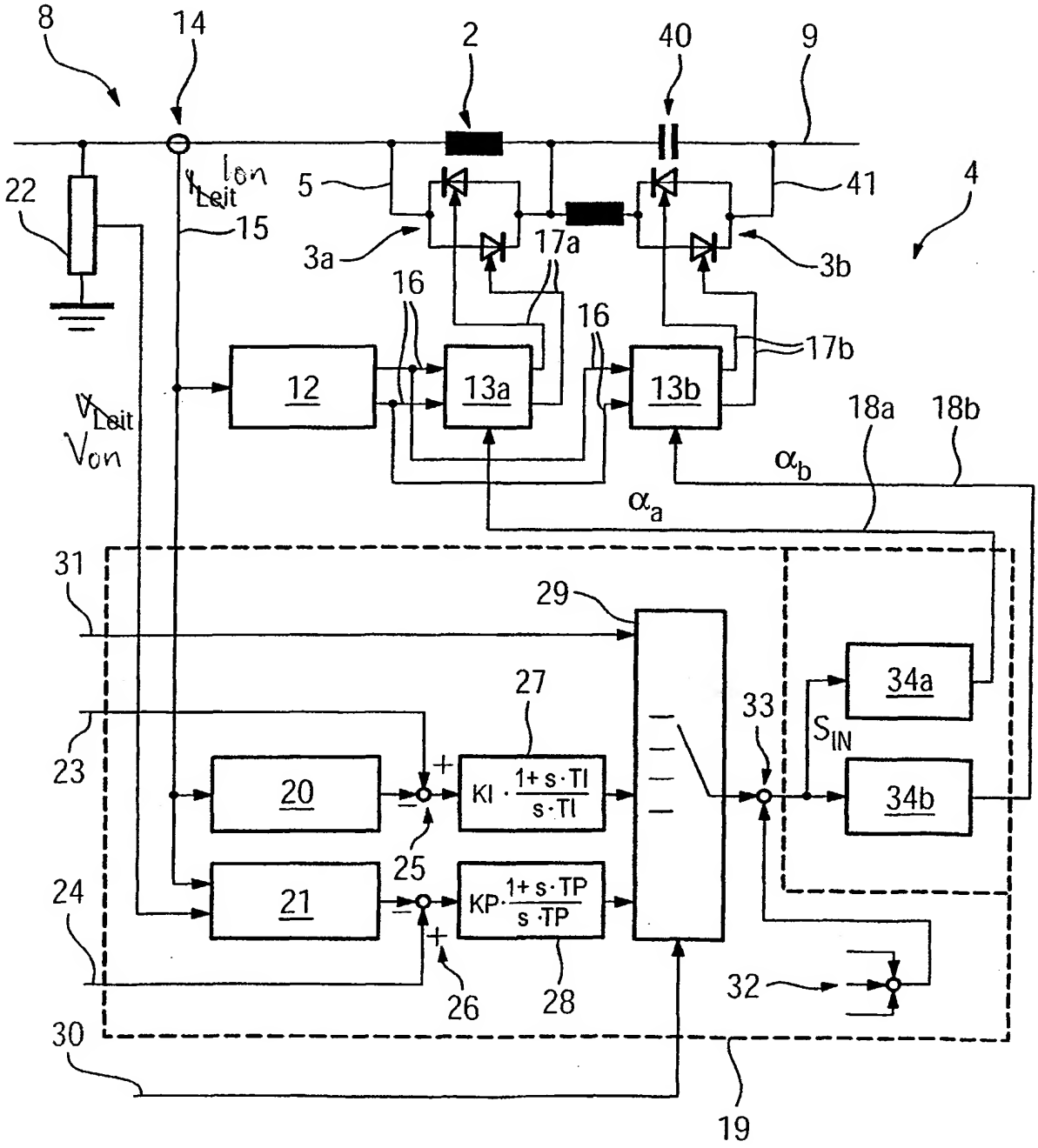

8
14
2
40
9
22
I_{Leit}
I_{on}
5
41
4
15
3a
17a
3b
16
16
17b
12
13a
13b
V_{Leit}
V_{on}
18a
18b
α_b
α_a
31
29
27
34a
33
S_{IN}
23
20
KI · (1+s·TI)/(s·TI)
34b
25
24
21
KP·(1+s·TP)/(s·TP)
26
28
32
30
19

FIG 21

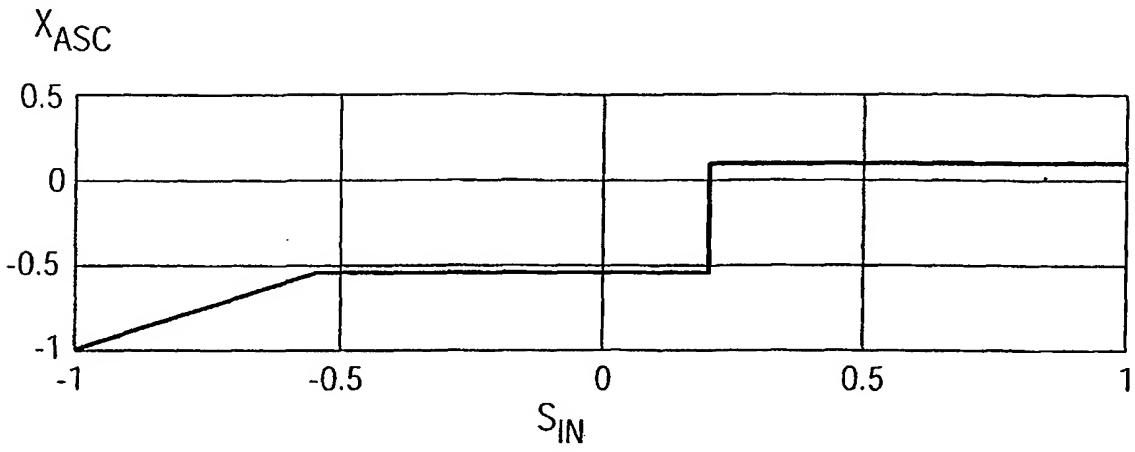


FIG 22

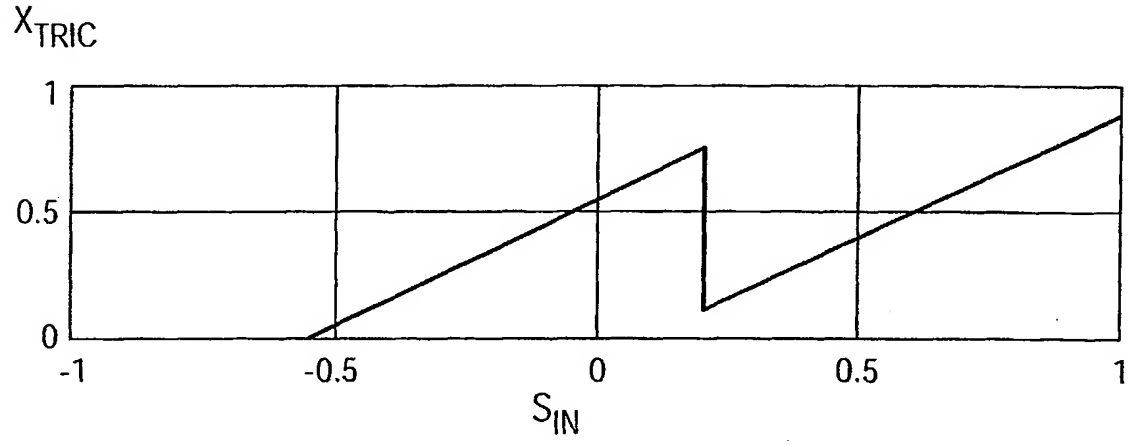


FIG 23

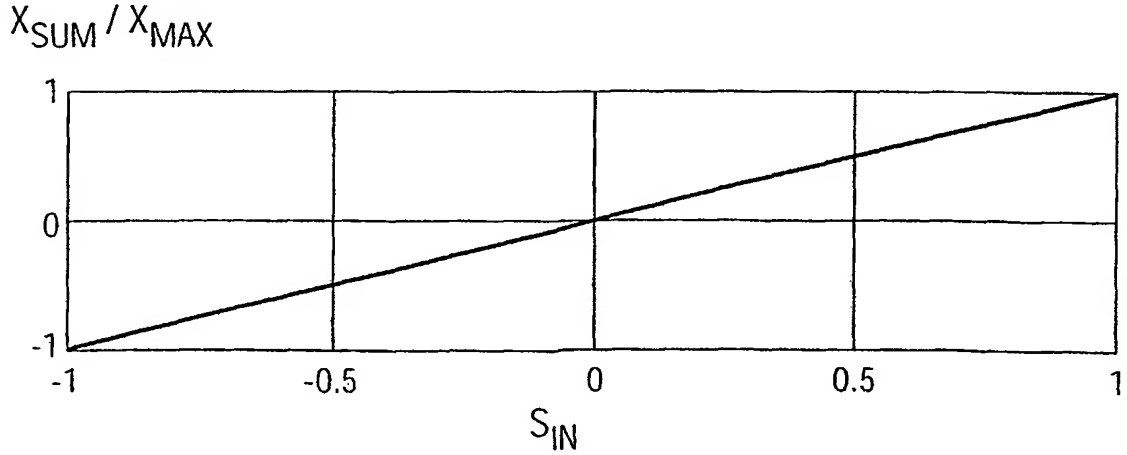


FIG 24